

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: December 19, 2002, 14:59:02 ; Search time 38 seconds

(without alignments)
3074.440 Million cell updates/sec

Title: US-08-813-323b-1

Perfect score: 2994
Sequence: 1 MESSKMDAAGTLQNPPLK.....IKDPIFKIVTSDLPDP 567

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

SPREMBL_21.*
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_rodent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacteriophage:*
17: sp_archaeophages:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1243	41.5	558	11	Q61480 mus musculus
2	1243	41.5	558	11	P70191 mus musculus
3	1189.5	39.7	557	4	O00463 mus musculus
4	832	27.8	508	11	O54896 mus musculus
5	727.5	24.3	447	4	O96NR2 mus musculus
6	708	23.6	501	13	O90WT6 mus musculus
7	560.5	18.7	470	4	O9B0U4 mus musculus
8	535.5	18.6	470	4	O14848 mus musculus
9	548	18.3	522	4	O9Y4K3 mus musculus
10	535	17.9	530	11	P70196 mus musculus
11	523.5	17.5	462	5	O9BIW7 mus musculus
12	523.5	17.5	509	5	O62248 caenorhabditis
13	521.5	17.4	470	11	O61382 mus musculus
14	500	16.7	412	5	O9UAC5 drosophila
15	500	16.7	486	5	O9XVR0 drosophila
16	434.5	14.5	352	6	O95LR1 macaca fasciata

17	291	9.7	296	12	O80UJ9 drosophila
18	287	9.6	452	5	O960HC drosophila
19	274.5	9.2	475	5	O9UAC4 drosophila
20	272.5	9.1	463	5	O9XYQ9 drosophila
21	272.5	9.1	475	5	O9W319 drosophila
22	263	8.8	395	5	O9VXG5 drosophila
23	206.5	6.9	198	4	O75615 mus musculus
24	205	6.8	360	4	O96CC2 mus musculus
25	204.5	6.8	1063	11	O9QY55 mus musculus
26	204	6.8	1098	4	O9UPQ7 mus musculus
27	203	6.8	239	11	O9CQ29 mus musculus
28	203	6.8	594	4	O9H073 mus musculus
29	199	6.6	594	11	O922B6 mus musculus
30	185	6.2	528	13	O91885 mus musculus
31	182.5	6.1	335	5	O9N586 mus musculus
32	176	5.9	891	4	O9Y2K3 mus musculus
33	167	5.6	33	4	O9UNL1 mus musculus
34	165	5.5	626	11	O922N9 mus musculus
35	157.5	5.3	671	11	O8R205 mus musculus
36	157.5	5.3	713	13	O9YHD6 mus musculus
37	156.5	5.2	1210	11	O91VW5 mus musculus
38	156.5	5.2	2238	11	O70365 mus musculus
39	155.5	5.2	609	13	O92021 xenopus laevis
40	155	5.2	390	5	O9VSW7 drosophila
41	155	5.2	846	4	O75130 mus musculus
42	155	5.2	1676	10	O23332 arabidopsis
43	154	5.1	410	16	O8XUL3 clostridium
44	154	5.1	1938	13	O91BD7 seriola dumerilii
45	153.5	5.1	1937	13	O91BD4 gallus gallus

ALIGNMENTS

RESULT 1

ID Q61480 PRELIMINARY; PRT; 558 AA.

AC Q61480: 01-NOV-1996 (TREMUR1.01, Created)

DT 01-NOV-1996 (TREMUR1.01, Last sequence update)

DT 01-JUN-2002 (TREMUR1.21, Last annotation update)

DE TRAF5.
GN TRAF5.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;

RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BA1B/C;
RX MEDLINE=96278943; PubMed=8663299;

RA Nakano H., Oshima H., Chung W., Williams-Abbott L., Ware C.F.,
RA Yagita H., Okumura K.,
RT "TRAF5, an activator of NF-kappaB and putative signal transducer for
RT the lymphotoxin-beta receptor.";
RL J. Biol. Chem. 271:14661-14664(1996).

CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC-FINGER.
DR EMBL: D78141; BA11218.1; -;
DR MGD; MGI:107548; Traf5.

DR InterPro: IPR002083; MATH.
DR InterPro: IPR003007; TRAF.
DR InterPro: IPR001841; Znf_Ring.
DR InterPro: IPR001293; Znf-TRAF.

DR Pfam: PF00917; MATH; 1.
DR Pfam: PF00917; Zf-TRAF; 2.
DR Pfam: PF02176; Zf-TRAF; 2.

DR SMART: SM00061; MATH; 1.
DR SMART: SM00184; RING; 1.
DR PROSITE: PS00518; ZF_RING_1; 1.
KW Zinc-finger.

SO SEQUENCE

558 AA; 64154 MW; D85F486746225042 CR664;

Query Match

41.5%; Score 1243; DB 11; Length 558;

RT tumor necrosis factor receptor-associated factor 5 (TRAF5).";
 RL Gene 207:135-140(1998).
 RN [2]
 RP SEQUENCE OF 20-557 FROM N.A.
 RX MEDLINE=97321041; PubMed=9177772;
 RA Nakano H., Shindo M., Yamada K., Yoshida M.C., Santee S.M., Ware C.F.,
 RA Jenkins N.A., Gilbert D.J., Yagita H., Copeland N.G., Okumura K.,
 RT "Human TNF receptor-associated factor 5 (TRAF5): cDNA cloning,
 RT expression and assignment of the TRAF5 gene to chromosome 1q32.";
 RL Genomics 42:36-32(1997).
 CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
 DR EMBL: AB00509; BAA25262.1; -
 DR EMBL: U69108; AAC51329.1; -
 DR InterPro: IPR002083; MATH.
 DR InterPro: IPR003007; TRAF.
 DR InterPro: IPR001841; ZnF_fing.
 DR InterPro: IPR001293; ZnF_TRAF.
 DR Pfam: PF00917; MATH; 1.
 DR Pfam: PF00097; zf-C3HC4; 1.
 DR Pfam: PF02176; zf-TRAF; 2.
 DR SMART: SM00061; MATH; 1.
 DR SMART: SM00184; RING; 1.
 DR PROSITE: PS00518; ZF_RING_1; 1.
 KW Zinc-finger.
 SQ SEQUENCE 557 AA; 64405 MW; 86EB3724CE111176 CRC64;
 Query Match 39.7%; Score 1189.5; DB 4; Length 557;
 Best Local Similarity 43.4%; Pred. No. 1.8e-66;
 Matches 232; Conservative 112; Mismatches 170; Indels 21; Gaps 9;
 QY 41 KEVKTEDEKCYKCRVLNCPKQTEGHRFCSCMALLS-SSSPKCTACQESIIKDKV 99
 DB 34 QFVERLEERYKCAFCOHSHVLPNOTGCGHRFCQHCILSLRLNVPICPDVKEIKQEV 93
 QY 100 FKDNCKREIILALQYCCNEBRCABDLTLGHLVHLKNEQFEELPCLRADCKEYLRK 159
 DB 94 FKDNCKREVLNLYYCSN-ARGCNAAVILGRYDHLQ-QCLFQVOCSEKREPLRLK 151
 QY 160 DLRDHVEKACKYREATCSHCKSOYPMIKLOKHEDTDCPCVVVSCPHKCSVOTLLRSELSA 219
 DB 152 DLKEHLASCSQFKREKCKKQDVVNLONHEMLCPREYVFCPNMCA-KIILKTEYDE 210
 QY 220 HLSECVNAPSTCSFKRKGCVFQGTNOQIKAHSAASAVOHVNLKEMWSLEKYSLLONE 279
 DB 211 HLAVCPEAEODCPFKHYCAVTDKRRNLQCHHSALREHMLVLEKNVQLEQISDLHKS 270
 QY 280 SVEKKSITSLHNOICSEFIEIEROKEMLRNNESEKILHLQVIDISOAKELKELDEIRPF 339
 DB 271 LEQESKIQOLAETIKLEKEFKOPADLFKNGSFLPPIQ-VFASHIDKSAMLEAQVHOL 329
 QY 340 -----RNMEEADSMKSSVESLQNRVTELESVDKSAGQAARNGLLESQLSRHDOITLV 393
 DB 330 LQVNOQNRKFDLRPLMEAVDTVOKITLLEND-----QLRLVLEEFENKIDHTINI 382
 QY 394 HDIRLADMDLFOVLETASVGLIMKIRDYKRRKQDAVMGKTLISYQPPYTGFGYKYM 453
 DB 383 HKADLSKKEERFKLLEGVCYNGKLIMKYDTKMKKREAVNGHTVSIQSQSYTSCGYRL 442
 QY 454 CARVYLDGNGKGTHTLSLFVIMRGEYDALPMPFKOKYTLMLMDQSSSRHIGDAGFKP 513
 DB 443 CARVYLDGNGSGRSHLSLFVYMKRGEFDSLQMPFQORVTLMLDD-SGKKNIMTEFKP 501
 QY 514 DPNSSSEFKPTGEMNIASGCPVFAQVTVLEN--GTIYIKDTIFIKVIVDTSDLP 566
 DB 502 DPNSSSEFKRPTGEMNIASGCPVFAVSHVLENAKNAIYIKDITLFLKVAIVDITLDED 556
 RESULT 4
 ID 054896 PRELIMINARY; PRT; 508 AA.
 AC 054896;
 DT 01-JUN-1998 (TReMBLrel. 06, Created)
 DT 01-JUN-1998 (TReMBLrel. 06, Last sequence update)

DT 01-JUN-2002 (TReMBLrel. 21, Last annotation update)
 DE Tumor necrosis factor receptor associated factor 2A.
 GN TRAF2A.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathu; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6; TISSUE=KIDNEY;
 RX MEDLINE=98129826; PubMed=9461607;
 RA Brink R., Lodish H.F.;
 RT "Tumor necrosis factor receptor (TNFR)-associated factor 2A (TRAF2A),
 RT a TRAF2 splice variant with an extended RING finger domain that
 RT inhibits TNFR2-mediated NF-kappaB activation.";
 RL J. Biol. Chem. 273:4129-4134(1998).
 CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
 DR EMBL: AF027570; AAC53545.1; -
 DR HSSP: P12351; 1HMT.
 DR InterPro: IPR002083; MATH.
 DR InterPro: IPR003007; TRAF.
 DR InterPro: IPR001841; ZnF_fing.
 DR InterPro: IPR001293; ZnF_TRAF.
 DR Pfam: PF00917; MATH; 1.
 DR Pfam: PF00097; zf-C3HC4; 1.
 DR Pfam: PF02176; zf-TRAF; 2.
 DR SMART: SM00061; MATH; 1.
 DR SMART: SM00184; RING; 1.
 DR PROSITE: PS00518; ZF_RING_1; 1.
 KW Receptor; Zinc-finger.
 SQ SEQUENCE 508 AA; 56751 MW; 74B8B26BFCF9B1C4 CRC64;
 Query Match 27.8%; Score 832; DB 11; Length 508;
 Best Local Similarity 33.6%; Pred. No. 3.3e-44;
 Matches 197; Conservative 89; Mismatches 194; Indels 106; Gaps 18;
 QY 7 MDAAGTLQRPPLKLPDRGASVLPVDEQYKEKRVKT-VEDKYCEKCRVLNCPKQTE 65
 DB 1 MAASVTSRPSLELLP-----GFSKITLGRLEKTYICSCCKNITLRRPQA 47
 QY 66 ECGHRFCESCM-----ALLSSSPK-CTAC-----QESIT--KDYVFKDNCKREI 109
 DB 48 QCHRYCSEFLITILRCASITSSSGPQNCACVLEGILREGISITLESSAFPDNARREV 107
 QY 110 LAQVYCRNGBRCABQTLGHLVHLKNEQFEELPCLRADCKEYLRKDLRDHYEKAC 169
 DB 108 ESILPVCPPND--GCTMKGLTKYESCHEGICPLLTCC--PACKGLVRLSEKHNTEOBC 163
 QY 170 KYREATCSHCKSOYPMIKLOKHEDTDCPCVVVSCPHKCSVOTLLRSELSAHSECVNAPS 229
 DB 164 PKRSLSCQHCRCARCSHVDELVNEY-CPKFPLTC-DGCGKKKIPRETPDHYRACKCV 221
 QY 230 TCSFKRKGCVFQGTNOQIKAHSAASAVOHVNLKEMWSLEKYSLLONE 279
 DB 222 LCFRHTVVGSEWETENLDHQLRLREHLALD--LSFLEAQSAGTLNQGPELLQRC 279
 QY 280 SVKKNISLHNOICSEFIEIEROKEMLRNNESEKILHLQVIDISOAKELKELDEIRPF 339
 DB 280 QILEQR-ITFENIVVLMREVER-----VAATAECSQHRLDDO---- 319
 QY 340 RNMEEADSMKSSVESLQNRVTELESVDKSAGQAARNGLLESQLSRHDOITLVDIRLA 399
 DB 320 -----KIEALSMMKVOGLE-----RSLGLNDLMAA 343
 QY 400 DMDLRFQVLETASVGLIMKIRDYKRRKQDAVMGKTLISYQPPYTGFGYKMCARVYL 459
 DB 344 DLQKVSLELVSTYDGVFWTKISDFTRKROEAVAGTPTAIFSPAYTSKYGKMLRVLV 403
 QY 460 NGDGMKGTHTLSLFVIMRGEYDALPMPFKOKYTLMLMDQSSSRHIGDAGKPPDNSS 519
 DB 404 NGDGTGRGHTLSLFVYMKRGEFDSLQMPFQORVTLMLDD--NNKEDVYIDARPPVYTS 462
 QY 520 FKRPTEGEMNIASGCPVFAQVTVLEN--NGTIYIKDITIFIKVIVDTSDI 564

DB 463 FGRPSDMNIAASGCPLEFCVSKMEKANSYVRDPAIFIRAIYDITGL 508

RESULT 5

096NT2 PRELIMINARY: PRT: 447 AA.

AC 096NT2: 01-DEC-2001 (TREMBlrel. 19, Created)
 DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE CDNA FLJ30124 f1s, clone BRACE100093, highly similar to TNF receptor associated factor 2.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=CEREBELLUM;
 RA Nishi T., Nakagawa S., Senoh A., Mizuguchi H., Inagaki H.,
 RA Sugiyama T., Irie R., Otsuki T., Sato H., Wakamatsu A., Ishii S.,
 RA Yamamoto J., Isono Y., Kawai-Hiro Y., Saito K., Nishikawa T.,
 RA Kimura K., Yamashita H., Matsuo K., Nakamura Y., Sekine M.,
 RA Kikuchi H., Kanda K., Magatsuna M., Murakawa K., Kanehori K.,
 RA Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B., Suzuki Y.,
 RA Sugano S., Nagahara K., Masuho Y., Nagai K., Isogai T.;
 RT "NEDO human cDNA sequencing project."
 RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
 CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
 DR EMBL: AK054686; BAB70792.1;
 DR InterPro: IPR002083; MATH.
 DR InterPro: IPR003077; TRAF.
 DR InterPro: IPR001841; ZnF_RING.
 DR InterPro: IPR001293; ZnF_TRAF.
 DR Pfam: PF00917; MATH; 1.
 DR Pfam: PF00097; zf-C3HC4; 1.
 DR Pfam: PF02176; zf-TRAF; 1.
 DR PROSITE: PS00518; ZF_RING_1; UNKNOWN_1.
 KW Zinc-finger.
 SQ SEQUENCE 447 AA: 49377 MW: 736158E346AB31D7 CRC64;

Query Match 24.3%; Score 727.5; DB 4: Length 447;
 Best Local Similarity 30.5%; Pred. No. 9.4e-38;
 Matches 161; Conservative 80; Mismatches 150; Indels 183; Gaps 16;

DB 7 MDAAGTLQPNPLKLPDRGASVLPEDGGYKKEFKVT-VEDKXKCEKRLVLCNPKOT 65
 1 MAASVTPPGSLLELP-----GFSKTLTGTLKLEAKYLCASCRNVLRRPFGA 47
 QY 66 ECGHRCESGMALLSSSPKCTAC-QESITNDK-----FKNCKCKREILAOVYC 116
 DB 48 QCHHRCVSCFLASILSSGPNCAVHEGIIYEGISILESSAFPDMAARVEESI.PAVC 107
 QY 117 RNRGCGAEOLTLGHLVHLKNECOFEELP-----CLRAD 151
 DB 108 PSD--GCTWKGTLKEYEVMRACGWTAPRANRSRPSVDYLVHVLGTGAENCLMV 165
 QY 152 CKEKVLKRLDRHVEKACKYREATCSHCKSQVPMIKLQKHEDTDCPVVNSCPHKCSVOT 211
 DB 166 EEEETELL--LRSCHEGRCPMLTECPACKGLVRLGEKERHLEHECPERSLSGRH-CRA-P 221
 QY 212 LIRSELSAHLSECVNAPSTCSFRRYCGVQGTNOQIKAHASAAVOHVMLLKEMSLDK 271
 DB 222 CCQADVKAHHEVCPRPELTCD--GCG-----KK 247
 QY 272 KVSLLQNESVEKKSQSLQNCISFEIEROKEMLRNNESKILHLQVIDSOAEKLEK 331
 DB 248 KI-----PREKPGD 256
 QY 332 LDEIRPFRONWEADSMSSVESLQNRVTELESVDKSAGQAARNTGLLESQLSRHDTL 391
 DB 257 QDK-----IALSSKYQOLE-----RSI 274

QY 392 SVHDIRLADMRLPROVLETASVNGVILMKIRDYKRRKQEAVMGKTLSTYSQOPYTGFGY 451
 DB 275 GLKDLAMADLEQKVLMEASAYDGVFTMKISDFARKQGEAVAGRIAPALEPARYTSRGY 334
 QY 452 KMCARVYLNGDMGKGTHTLSLFVIMGEYDALLPWFPOKVTLMIMDGSSRRHLGDAF 511
 DB 335 KMCRLRYLNGDGTGRGTHLSLFVVMKGPNDALRWFPNOKVTLMLLDQ--NNREHVIDAF 393
 QY 512 KPDNRSSFFKPTEDMNIASGCPYFAQVYLE-NGTYIKDTEFIKIVYDTSL 564
 DB 394 RPDVTSSFFORPVDNMNIASGCPLEFCVSKMEKANSYVRDPAIFIRAIYDITGL 447

RESULT 6

090WT6 PRELIMINARY: PRT: 501 AA.

AC 090WT6: 01-DEC-2001 (TREMBlrel. 19, Created)
 DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DE Tumor necrosis factor receptor associate factor-2.
 GN TRAF2.
 OS Carassius auratus (Goldfish).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
 OC Cyprinidae; Carassius.
 OX NCBI_TaxID=7957;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Wang T., Secombes C.J.;
 RT "Cloning and expression of crucian carp tumor necrosis factor receptor associated factor-2 (TRAF2)."
 RL Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.
 CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
 DR EMBL: AJ297860; CAC82653.1;
 DR InterPro: IPR002083; MATH.
 DR InterPro: IPR003077; TRAF.
 DR InterPro: IPR001841; ZnF_RING.
 DR InterPro: IPR001293; ZnF_TRAF.
 DR Pfam: PF00917; MATH; 1.
 DR Pfam: PF00097; zf-C3HC4; 1.
 DR Pfam: PF02176; zf-TRAF; 2.
 DR Receptor: Zinc-finger.
 KW Receptor; Zinc-finger.
 SQ SEQUENCE 501 AA: 56503 MW: DE0ED0F8D9DC287 CRC64;

Query Match 23.6%; Score 708; DB 13: Length 501;
 Best Local Similarity 30.9%; Pred. No. 1.8e-36;
 Matches 160; Conservative 86; Mismatches 166; Indels 106; Gaps 14;

QY 39 KEKFTYEDYKCEKGLVLCNPKOTECGHRFCESGMALLSSSPKCTACQ-ESTIKD 97
 DB 32 REVLSVSMPEPTQCCQCKEILRKPRQACGHRFCVFCFKLTLSGPIPCACRAGLFE 91
 QY 98 KV-----FKNCKCKREILAOVYCNRNCGCAEOLTLGHLVHLKNECOFEELPCLR 149
 DB 92 AMSMLNTIVAPPDNAAREIDSLPAKCPND--GCSWSTGLDYDGOHEGRDDEFERYVC-- 147
 QY 150 ADCCKKTVLRKDLRHDVEKACKYREATCSHCKSQVPMIKLQKHEDTDCPVVNSCPHKCSV 209
 DB 148 EACQAVIILSEDRNRENECEARLNCYKVTENFEIKAHDEL--QCKRPMOC-KDCGK 205
 QY 210 QTLRSELASHLSECVNAPSTCSFRRYCGVQGTNOQIKAHASAAVOHVMLLKEMSLDK 262
 DB 206 KPIPEKFOEHTKSAKSKSCQSFSEICRAVVDNGKQOEHQSTVMEHLRLMSTVLSV 265
 QY 263 -----KWSNLSLEKVSLLQ-----NESVEK-----NKSISQSLANDICS 296
 DB 266 RLRAEGAGEMQE--DSGLYRGPEADAPPAGPNAAHNAGRGGPGVQOKVTALENTVCV 323
 QY 297 FEIEIEROKEMLRNNESKILHLQVIDSOAEKLELDEIRPFRONWEADSMSSVESL 356
 DB 324 LNRVERSALTU-----EALSROHRLDQ-----KIENL 352

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QY 357 QNRVTELESVDKSGAQAARNTGLLESQLSRHDOTLSVHDIRLADMDLRFQVLETASNGV 416
D 353 SNKVRLE-----RLLMRDQLAESESLBELPCTYDGV 388
QY 417 LKIRIRYKRRKQAVNGKTLSTLYSOPFTYGYGKMKACARVYLNGDMGKTHLSFEVY 476
D 389 FIMKIDAFSSRRDPAVAGRAPAFMSPAFYSKKGKMLRLYLNGDGTGTHLSLFEVY 448
QY 477 MRGEYDALLPMPFQOKVTLMLMDQSSRRHLGDAFKPD 514
D 449 MRGKYDALLKMPFSQKVTLMLLDQ--NNREHIDAFRPD 485

RESULT 7
Q9BUZ4 PRELIMINARY: PRT: 470 AA.
AC Q9BUZ4:
DT 01-JUN-2001 (Tremblrel. 17, Created)
DT 01-JUN-2001 (Tremblrel. 17, Last sequence update)
DE TNF receptor-associated factor 4.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxId=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=EYE;
RA Strausberg R.;
RL Submitted (JAN-2001) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
DR EMBL: BC001769; AH01769.1;
DR InterPro: IPR002083; MATH.
DR InterPro: IPR003007; TRAF.
DR InterPro: IPR001841; ZnF_Ring.
DR InterPro: IPR001293; ZnF_TRAF.
DR Pfam: PF00917; MATH; 1.
DR Pfam: PF00097; ZF-C3HC4; 1.
DR Pfam: PF02176; ZF-TRAF; 3.
DR SMART: SM00061; MATH; 1.
DR SMART: SM00184; RING; 1.
DR PROSITE: PS00518; ZF_RING_1; 1.
KW Receptor; Zinc-finger.
SQ SEQUENCE 470 AA; 53542 MW; A357E0E1081AB88 CRC64;

Query Match 18.7%; Score 560.5; DB 4; Length 470;
Best Local Similarity 24.1%; Pred. No. 2,6e-27;
Matches 142; Conservative 81; Mismatches 173; Indels 193; Gaps 12;

QY 37 GYREKVKVDEKYYCKEKLVLCPNQ--TECGHRCSCMAALLSSSSPKCTACQESI 95
D 3 GFDYKFLKPKRRLLCPRLCGKPMREPVQYSTCGHRCFCDLQEFLEGEVFKCPEDQLPD 62
QY 96 KDKVFNCKCKREILALQVYCHNEGCGAEQLTLGLHLVHLKNEQFELPC----- 147
D 63 YAKITPDEPLEQVGLPIRLCIHSEBGCWSPRLHLQGH--NTCSFVYIPCPNRCPKML 121
QY 148 -----LRADCKE-----KVLKDLR 162
D 122 SHRDLPALHQLHDCPKRRLKCEFCGDFSEAVESHGMCPOESVYCKKCAKRMKRLLA 181
QY 163 DIVEKACKREATGCHSCSQVPMILQNHEDTDCPVVSCPHKCSYOTLLRSELTAHLS 222
D 182 QHATSECPKRPQCTYCKREYFDTIQSHQ--YQCPRLVACPNQCGVGTAREDLPGHLK 240
QY 223 E-CVNAPTSCSEKRYGCFQGTNOQIKAEHSAVAQVHNLKEMNSLEKKVSYLLQNSV 281
D 241 DSCNLAIVLCPEKDCGCKHRCPKLMAHRYEVSYPHLAM----- 281
QY 282 EKNNKISQSLHNOICSEFIEIEROKEMLRNNNSKLIHLQVIDSQAELKELDKETIRPQR 341
D 282 -----CA-----LVSRQDELQELRREL----- 299

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QY 342 NNEADSMKSSVESLQNRVTELESVDKSGAQAARNTGLLESQLSRHDOTLSVHDIRLAD 401
D 300 -----BELSV----- 304
QY 402 DLRFQVLETASNGVYLIMKIRDKRRKQAVNGKTLSTLYSOPFTYGYGKMKACARVYLNG 461
D 305 -----GSDGVLYIMKISYGRRLQEAQKPKNLECFSPAFYTHKYGKLYQVSAFLNG 354
QY 462 DMGKTHLSLFEVYIMRGEYDALLPMPFQOKVTLMLMDQ-----SSRHLGDAFKPDPS 517
D 355 NCSGEGTHLSLYIRVLPAGFQNLLEMPFARRRTFESLLQSDPGLAKPQHVETETFPDPNW 414
QY 518 SSFKRP-----TGMNIAASCPVFAQTVLENGTYIKDTIFKVIYD 560
D 415 KNFQKPTWRGSLDESSLSGFGYPKFISHQDIRKRYVVDVAFIRAAVE 463

RESULT 8
Q14848 PRELIMINARY: PRT: 470 AA.
AC Q14848:
DT 01-NOV-1996 (Tremblrel. 01, Created)
DT 01-NOV-1996 (Tremblrel. 01, Last sequence update)
DE TNF receptor-associated factor 4.
DE Cysteine rich domain associated to RING and TRAF protein.
MLN 62, CART1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxId=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-BREAST DERIVED METASTATIC LYMPH NODE;
RC MEDLINE=96039245; PubMed=7490069;
RA Tomasetto C., Regnier C.H., Moog-Lutz C., Mattei M.G., Chenard M.P.,
RA Lidereau R., Basset P., Rio M.C.;
RT "Identification of four novel human genes amplified and overexpressed
RT in breast carcinoma and located to the q11-q21.3 region of chromosome
RT 17."
RL Genomics 28:367-376(1995).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE-BREAST DERIVED METASTATIC LYMPH NODE;
RC MEDLINE=96029665; PubMed=7592751;
RA Regnier C.H., Tomasetto C., Moog-Lutz C., Chenard M.P., Wendling C.,
RA Basset P., Rio M.C.;
RT "Presence of a new conserved domain in CART1, a novel member of the
RT tumor necrosis factor receptor-associated protein family, which is
RT expressed in breast carcinoma."
RL J. Biol. Chem. 270:25715-25721(1995).
RN [3]
RP SEQUENCE FROM N.A.
RC TISSUE-BREAST DERIVED METASTATIC LYMPH NODE;
RC MEDLINE=98175888; PubMed=9507120;
RA Messon R., Regnier C.H., Chenard M.P., Wendling C., Mattei M.G.,
RA Tomasetto C., Rio M.C.;
RT "Tumor necrosis factor receptor associated factor4 (TRAF4) expression
RT pattern during mouse development."
RL Mech. Dev. 71:187-191(1998).
CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
DR EMBL: X80200; CA56491.1;
DR InterPro: IPR002083; MATH.
DR InterPro: IPR003007; TRAF.
DR InterPro: IPR001841; ZnF_Ring.
DR InterPro: IPR001293; ZnF_TRAF.
DR Pfam: PF00917; MATH; 1.
DR Pfam: PF00097; ZF-C3HC4; 1.
DR Pfam: PF02176; ZF-TRAF; 3.
DR SMART: SM00061; MATH; 1.
DR SMART: SM00184; RING; 1.
DR PROSITE: PS00518; ZF_RING_1; 1.
KW Zinc-finger.

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RL J. Biol. Chem. 0:0-0(1996).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=97067112; PubMed=8910514;
 RA Ishida T., Mizushima S., Azuma S., Kobayashi N., Tojo T., Suzuki K.,
 RA Aizawa S., Matsumoto S., Mosialos G., Kieff E., Yamamoto T., Inoue J.;
 RT "Identification of TRAF6, a novel tumor necrosis factor receptor
 RT associated factor protein that mediates signaling from an amino
 RT terminal domain of the CD40 cytoplasmic region.";
 RT J. Biol. Chem. 271:28745-28748(1996)
 CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
 DR EMBL; D84655; BA012705.1; -
 DR HSP; P15919; IRND.
 DR MGI; MGI:108072; Traf6.
 DR InterPro: IPR002083; MATH.
 DR InterPro: IPR000504; RNA_rec_mot.
 DR InterPro: IPR003007; TRAF.
 DR InterPro: IPR001841; Znf_fing.
 DR InterPro: IPR001293; Znf_TRAF.
 DR Pfam; PF00917; MATH; 1.
 DR Pfam; PF00971; zf-C3HC4; 1.
 DR Pfam; PF02176; zf-TRAF; 2.
 DR SMART; SM00061; MATH; 1.
 DR SMART; SM00184; RING; 1.
 DR PROSITE; PS00030; RRM_RNP_1; UNKNOWN_1.
 DR PROSITE; PS00518; ZF_RING_1; 1.
 DR Zinc-finger.
 SQ SEQUENCE 530 AA; 60082 MW; 092D820B4CEDB85B CRC64;

Query Match 17.9%; Score 535; DB 11; Length 530;
 Best Local Similarity 25.2%; Pred. No. 1.2e-25;
 Matches 144; Conservative 104; Mismatches 236; Indels 88; Gaps 17;

OY 3 SSKKKDAAGTLOPRLKLOPRGASV-----LVPEGGKKEKVKVKEKKEK 54
 DB 13 SOSSDDCCAMMAASCAVAVKDDSVSGSASTGNLSSFEETQGDVEEDPLESEKYECP 72
 OY 55 CRLVLCNPKQTECGHRCFESCMALLSSSPKCTACQESTIKDKYFNCKCKRETLAQ 114
 DB 73 CLMALREAVQPCGHRFCACIKSIRDAHGKCPVDNEILLNOLFPNFAKRELSLTLY 132
 OY 115 YCRNRCGCAEQLTLGHLVHLKNECOFEELPCRLADCKEYVLRDLRDHYEAKCKYREA 174
 DB 133 KCPN--KCCLOKMELEHEDH--QVHCEPALVNC--PCCORPFCOVVTHIECCPRQV 187
 OY 175 TCSHCKSOVPMIKLOKHEDTDCPCVVVSCPHKCSVQTLRLSELASHLS--ECVNAPTCSF 233
 DB 188 SCVNAVSMAYEEKETI--DQSCPLANTICET--CCT--ILIRQMPNHLDLDCPTAPICPTE 244
 OY 234 KRYGCVFQGTNOQIKAHESASAVOHVNLKEMSNLEKKVSLLONESVEKNKSIQSLHQ 293
 DB 245 SVFGCHQKQNRNHLARHLOENTOLHMRLL-----AQAVHNV 280
 OY 294 ICSFEIEIEROKEMLRNNESEKILHLQRYIDSOAEKLEKELDEIRPFRONWEADSMKSSV 353
 DB 281 NLAL-----RPCDAAP-----SRGCRPEDEPNYEE-----TI 307
 OY 354 ESLQNRVTELESVDKSAGQAARNTGLLESQSRHDQTLVSHDRLADMDLRFOVLEMAS 413
 DB 308 KOLSERLVROHJOIRELAKMETOSMYGELKRTIRTL---EDKVAEL-----EAOQC 357
 OY 414 NGVLIMKTRDYKRRKQEAVMGKTLISYQPPYTGFGYKMCARVYLN--GDGMKGTHLSL 472
 DB 358 NGIYIMKIGKFGMHLKQSQEEERPVYHISPGYTGRCYKLCMRHLQLPTRQRCANYISL 417
 OY 473 FEVIMRGFYDALLPMPRKQKVTLMMDQGS--RRHLGDAFKPDPNNSSEKPKET 530
 DB 418 FVHIMQGETDHLMPRPQGTIRLTLIDQSEALIRQNEEYVADAPPELLAFORPTIPRNP 477
 OY 531 S-GCPVFAQTVLENGTYIKDITFIKVIYDT 561
 DB 478 GFGYVTFMHLALRGTFIKDITLVRCVST 509

RESULT 11

ID O9BIW7 PRELIMINARY; PRT; 462 AA.
 AC O9BIW7;
 DT 01-JUN-2001 (TREMBLrel. 17, Created)
 DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
 DT 01-MAR-2002 (TREMBLrel. 20, Last annotation update)
 DE TRF-1
 OS Caenorhabditis elegans.
 OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditidae;
 OC Rhabditidae; Pelodidae; Caenorhabditis.
 OX NCBI_Taxid=6239;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21407111; PubMed=11516642;
 RA Pujoil N., Link E.M., Liu L.X., Kurz C.L., Allong G., Tan M.,
 RA Ray K.P., Solari R., Johnson C.D., Embank J.J.;
 RT "A reverse genetic analysis of components of the Toll signaling
 RT pathway in Caenorhabditis elegans.";
 RT Curr. Biol. 11:809-821(2001).
 DR EMBL; AE348168; AA037546.1; -
 DR InterPro: IPR002083; MATH.
 DR InterPro: IPR003007; TRAF.
 DR InterPro: IPR001841; Znf_fing.
 DR InterPro: IPR001293; Znf_TRAF.
 DR Pfam; PF00917; MATH; 1.
 DR Pfam; PF02176; zf-TRAF; 2.
 DR SMART; SM00061; MATH; 1.
 DR SMART; SM00184; RING; 1.
 SQ SEQUENCE 462 AA; 52354 MW; E07F04BF1756B343 CRC64;

Query Match 17.5%; Score 523.5; DB 5; Length 462;
 Best Local Similarity 26.2%; Pred. No. 5.2e-25;
 Matches 137; Conservative 68; Mismatches 188; Indels 129; Gaps 12;

OY 52 CCKRLVLCNPKQTECGHRCFESCMALLSSSPKCTACQESTIKDKYFNCKCKRETLAQ 111
 DB 18 CPICEQALRPRLYLNDHNCROCFER--ENKRPSCAACOTTIOPELCONHAKKOKOLIA 75
 OY 112 LOYVCRNRCGCAEQLTLGHLVHLKNECOFE--ELPCLRADCKEYVLRDLRDHYEAKCK 170
 DB 76 LPVVCCTEESGCPWDQGLTGLHDHL--SECTFKSLCKEK--CGRQPAKNDLEKRAK--CE 131
 OY 171 YKATGCHCKSOVPMIKLOKHEDTDCPCVVVSCPHKCSVQTLRLSELASHLSQVNAPT 230
 DB 132 LNRVCSFCNKTRIDSDREHNPRT--CPQYIISCPFCQGLDRPRELIEAHCPSPVADNV 190
 OY 231 CSFRRYCVFQGTNOQIKAHESASAVOHVNLKEMSNLEKKVSLLONESVEKNKSIQSL 290
 DB 191 CPEVPIQCTAGCKESIQCHLSDEPVYHLMYLCDEITDLKGYELM----- 236
 OY 291 HNOICSEIEIEROKEMLRNNESEKILHLQRYIDSOAEKLEKELDEIRPFRONWEADSMK 350
 DB 237 -----ERDMGSPFNDRIRL-----SALETCTEM----- 260
 OY 351 SSVESLQNRVTELESVDKSAGQAARNTGLLESQSRHDQTLVSHDRLADMDLRFOVLE 410
 DB 261 ----- 260
 OY 411 ASYNGVLIMKTRDYKRRKQEAVMGKTLISYQPPYTGFGYKMCARVYLN--GDGMKGTHLSL 470
 DB 261 --FGPQLIMKIDKLOORTNEAKSGAFTTIFSVFPMHRRGKRMKACACLFQGGSSAGKST 318
 OY 471 SEFVIMRGFYDALLPMPRKQKVTLMMDQGS-----SRHLGDAFKPDPNNSSEKPKET 524
 DB 319 SLVLLLLKGEFPTLEMPRFAIKISLIDQNPREDRVNITVYIDPRKLKANEKFLAPR 378
 OY 525 GEMNIASGCPVFAQTVLENGTYIKDITFIKVIYDTSD--LP 565
 DB 379 GERNAAFSGSOFCSALIDQ--YKDKDITVVIDVRCETLP 418

QY 402 DLRFVLETASYNGVLIMKIRDYKRRKQEAVMGKTLISYSPFTYGYFGYKMCARYLNG 461
 Db 305 -----GSDGVILIMKIGSYGRLOEAKKAPNLECSFPAFTYTKYKTKLOVSLNG 354
 QY 462 DGMKGTLSLFEVIMRGEYDALLPWPFKQVTLMLMDG-----SSRHLGDAFKDPDPS 517
 Db 355 NGSGEHTLSLIRVLPGAFNDLLEWPLARVTFSLDSDPCLAKPQVHTETFFHDPWM 414
 QY 518 SSKFKP-----TGENNIASGCVFAQVLENGYIKDPTIKYIVD 560
 Db 415 KMFQETWNGSLDESSLGFYKPKFTSHODIRKRVNRYDDAVFIRASVE 463

RESULT 14

QYUC5 PRELIMINARY: PRT: 412 AA.

AC 09UAC5: 01-MAY-2000 (TREMBlrel. 13, Created)
 DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DE TRAF1.
 GN TRAF1 OR CG3048.
 OS Drosophila melanogaster (Fruit fly).
 OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
 OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 OC Ephydroidea; Drosophilidae; Drosophila.
 OC NCBI_TaxId=7227;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Medzhitov R., Janeway C.;
 RT "Drosophila TRAF proteins are components of innate host defense
 pathways.";
 RL Submitted (JUL-1998) to the EMBL/Genbank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RA Richter B.W.M., Duckett C.S.;
 RT "Identification of a Drosophila TRAF homolog.";
 RL Submitted (DEC-1998) to the EMBL/Genbank/DBJ databases.
 DR EMBL: AF079837; AAD47894.1;
 DR EMBL: AF114423; AAG21891.1;
 DR FlyBase: FBgn026319; Traf1.
 DR InterPro: IPR002083; MATH.
 DR InterPro: IPR003007; TRAF.
 DR InterPro: IPR001293; Znf-TRAF.
 DR Pfam: PF00917; MATH. 1.
 DR Pfam: PF02176; zf-TRAF. 3.
 DR SMART: SM00061; MATH. 1.
 SO SEQUENCE 412 AA; 46159 MW; 81A05147AA7D64CE CRC64;

Query Match 16.7%; Score 500; DB 5; Length 412;
 Best Local Similarity 24.9%; Pred. No. 1.3e-23;
 Matches 130; Conservative 73; Mismatches 158; Indels 162; Gaps 11;

QY 48 DKKYKCKLVLCNPKQKCEGRCFESMAALSSSKCTACQSTIKDKYVFNCKCR 107
 Db 43 DELRLKGLNCKKHDATQCPN-----KCGAQIPRIMTDLDTCTMR 86
 QY 108 ETLALQVYCRNE--GRGAEOITLGLHLVHLKNECOFELPCLRADCKEYLRKDLRDHY 165
 Db 87 RTTC--EFGQSEFGAGLEH-----NGSGQEPYVC-EAKCGQRLRGMTLHK 133
 QY 166 EKACKYRATGSHCKSQVPMIKLQKHEDTDCPCVVVSCPHKCSVOTLLRSELNHL-SEC 224
 Db 134 SKDCARRRRCACHQCRFSADTLPLHA-AQCPRRAPLACPORCADGPIPRGELNHLRDEC 192
 QY 225 VNAFSTGCFKRGVCFQSTNOOIKHAESSAVOHVNLKEMSNLEKKVSLLOMESYKN 284
 Db 193 OSIAVSCFKEGCKRFPROMLEHLESNAHAHLSLWALVSLRQGGQIQWL----- 244
 QY 285 KSIOGLNQICSFELIEROKEMLNNSKILHLQRYIDSOAEKLIKELDKRIPFRQWE 344
 Db 245 ----- 244

QY 345 EADSKSSVESIQNRVTELESVDKAGAAKNTGLLESQLSRHDTLSVHDIRLADMDLR 404
 Db 245 -----KSAVSKL----- 251
 QY 405 FOVLFTASVNGVLIMKIRDYKRRKQEAVMGKTLISYSPFTYGYFGYKMCARYLNGDM 464
 Db 252 -----SINTGLTKITDMSAKMAEANGKQGLELVSPFTSYGYKLOASMFELNGCP 306
 QY 465 GKGTLSLFEVIMRGEYDALLPWPFKQVTLMLMDG-----SSRHLGDAFKDPDPSFKK 522
 Db 307 GENTHVSYYIKVLPEYDALLKWPFSHTITFTLPEQGNQSGGVAESFYDPTWENQR 366
 QY 523 PTGEMN-IASGCVFAQVLENGYIKDPTIKYIVISDL 564
 Db 367 PSNEPDQGFGEFPRFISHELLHSRPFIKGTVFLRVKVPDSKI 409

RESULT 15

QYXRO PRELIMINARY: PRT: 486 AA.

AC 09XRO: 01-NOV-1999 (TREMBlrel. 12, Created)
 DT 01-NOV-1999 (TREMBlrel. 12, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE TRAF1 protein (LD20987P).
 GN TRAF1 OR CG3048.
 OS Drosophila melanogaster (Fruit fly).
 OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
 OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 OC Ephydroidea; Drosophilidae; Drosophila.
 OC NCBI_TaxId=7227;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA STRAIN-BERKELEY;
 RC MEDLINE-20196006; PubMed-10731132;
 RX Adams M.D., Celnik S.E., Holt R.A., Evans C.A., Cocayne J.D.,
 RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
 RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
 RA Brannon R.C., Rogers Y.-H.C., Blazer R.G., Champagne M., Pfeiffer B.D.,
 RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
 RA April J.F., Abmayyan A., An H.-J., Andrews-Pfankoch C., Baldwin D.,
 RA Balow R.Y., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
 RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
 RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
 RA Burlis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
 RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
 RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Diletz S.M.,
 RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
 RA Foster C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
 RA Gloder A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
 RA Harris N.L., Harvey D., Helman T.J., Hernandez J.R., Houck J.,
 RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
 RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
 RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
 RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
 RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacle J.M.,
 RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
 RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
 RA Shier B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
 RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
 RA Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissbach J.,
 RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
 RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
 RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
 RT "The genome sequence of Drosophila melanogaster.";
 RL Science 287:2185-2195(2000).

FN	[2]	SEQUENCE FROM N.A.
RP		
RX		MEDLINE=99147085; Pubmed=10021364;
RA		Lin H., Su Y.C., Becker E., Treisman J., Skolnik E.Y.;
RT		"A Dirosophila TGF-receptor-associated factor (TRAF) binds the ste20
RL		kinase Mischapen and activates Jun kinase.";
RN		Curr. Biol. 9:101-104(1999).
RP	[3]	SEQUENCE FROM N.A.
RC		STRAIN-BERKELEY.
RA		Stapleton M., Brokstein P., Hong L., Agbayani A., Carlson J.,
RA		Champe M., Chavez C., Dorsett V., Dresnek D., Farfan D., Frise E.,
RA		George R., Gonzalez M., Guatin H., Krommiller B., Li P., Liao G.,
RA		Miranda A., Muncall C.J., Nunoo J., Pacble J., Paragas V., Park S.,
RA		Patel S., Phouanavong S., Wan K., Yu C., Lewis S.E., Rubin G.M.,
RA		Celniker S.;
RL		Submitted (APR-2002) to the EMBL/GenBank/DBDJ databases.
DR		EMBL; AE003576; AAF51024.1; -
DR		EMBL; AF119794; AAD34346.1; -
DR		EMBL; AY094792; AAM1145.1; -
DR		FLYBase; FBgn0026319; Traf1.
DR		InterPro; IPR002083; MATH.
DR		InterPro; IPR003007; TRAF.
DR		InterPro; IPR001293; Znf_TRAF.
DR		Pfam; PF00917; MATH; 1.
DR		Pfam; PF02176; zf-TRAF; 3.
DR		SMART; SM00061; MATH; 1.
KW		Receptor.
SD		SEQUENCE 486 AA; 53665 MW; 41474B5ED014A99D5 CRC64;